



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

05344

SHEET 1 OF 2

DWG NO. 647.1500

REV: B

PREPARED BY

J. GARDINER

DATE: 03/15/16

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: DEFLECTORS

APPROVED BY:

ENGR

MFG

QC

EFF:

CURRENT ORDER

REASON: REVISED NOTES AND DIMENSIONS

ECR:

N/A

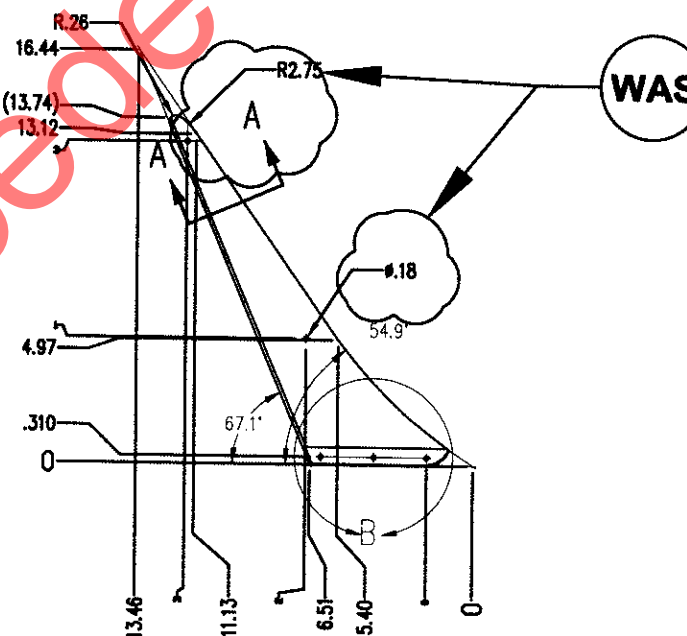
ACTION LIST:

1.

WAS

NOTES:

- 1. MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2. FINISH PER MPP-172 SECTION 3.3 & 4.3, 1-2 MIL MAX
- 3. DEBURR AND BREAK ALL SHARP EDGES
- 4. IDENTIFY IAW MPP-129
- 5. APPLY F/A 5 AS REQUIRED TO ALL FAYING SURFACES
- 6. F/A 2 & 3 IAW ASSY



SHEET 1, ZONE A7 WAS:

SHEET 1, ZONE C3 WAS:

DOCUMENTS EFFECTED:

☐ PATTERN

☐ MDL

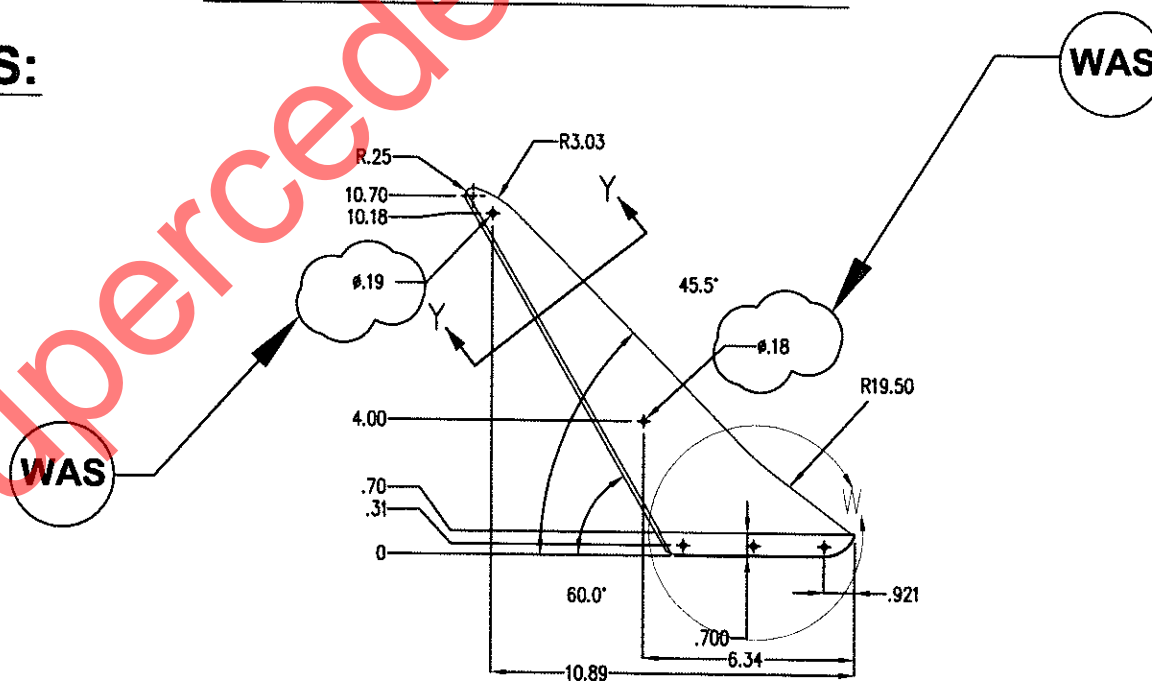
☐ INSTALL INSTRUC

☐ ICA

☐ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

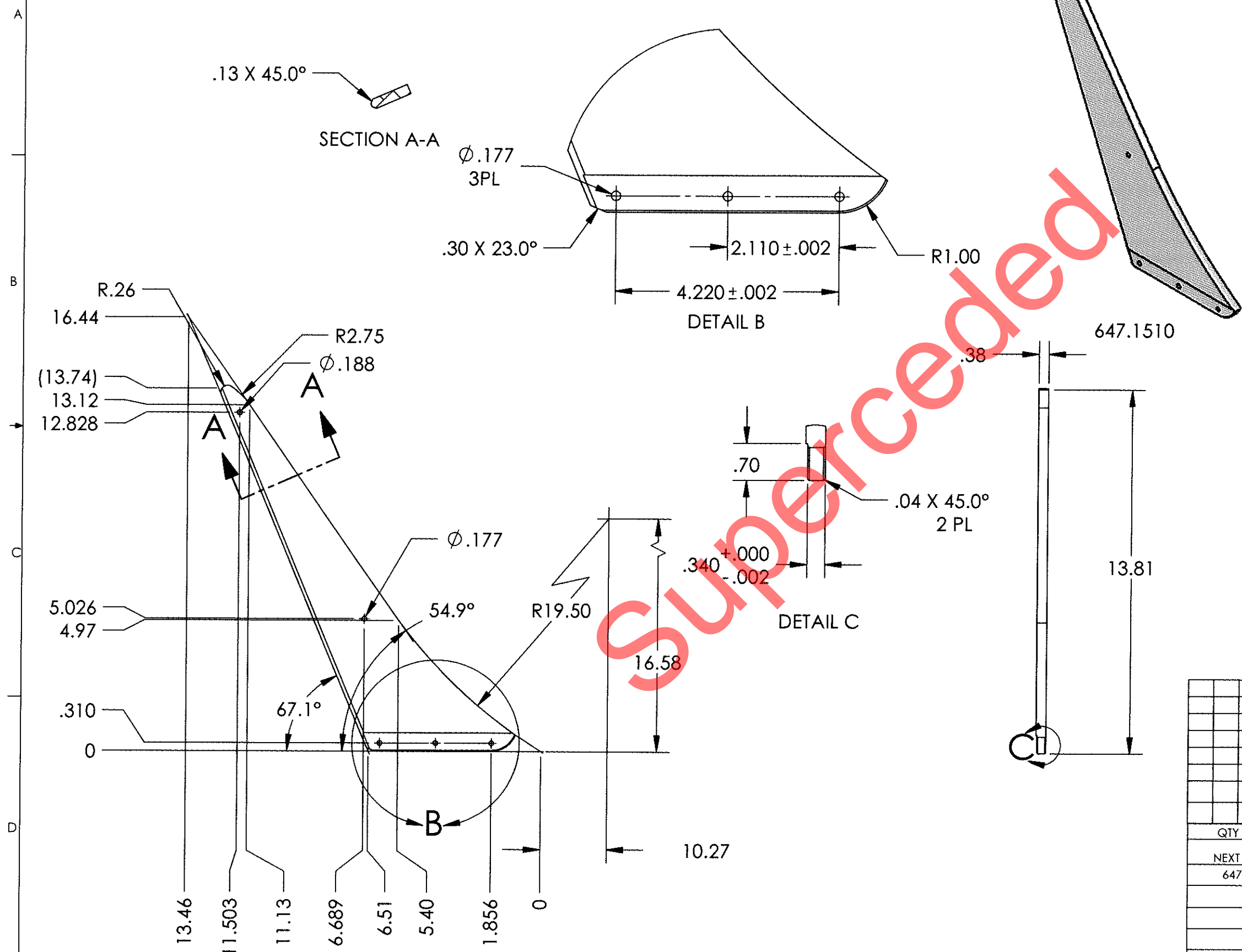


SHEET 6, ZONE A3 WAS:

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR1		N/C
N/C	INITIAL RELEASE	06/10/09	P. BRAVO
A	INCORPORATED ECH 02960, 04676, 04743	11/17/14	P. BRAVO
B	INCORPORATED ECH 05331	02/29/16	P. BRAVO
C	INCORPORATED ECH 05344	03/15/16	P. BRAVO

- NOTES:
- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
 - 2 FINISH PER MPP-172 SECTION 2.1, 3.3 & 4.3, 1-2 MIL MAX
 3. DEBURR AND BREAK ALL SHARP EDGES
 4. IDENTIFY IAW MPP-120
 - 5 APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 & 3 UPON ASSY



		6	647.1513	UPPER DEFLECTOR	1	2
	A/R	5	601.2045	RTV, LOCTITE 598		
	2	4	600.0523	RIVET	MS20470AD4-12	
	1	3	647.1512	BREAKAWAY TIP	1	2
	1	2	647.1511	LOWER DEFLECTOR	1	2
		1	647.1510	UPPER DEFLECTOR		2
	X		647.1501	LOWER DEFLECTOR ASSY		
	.1501	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
PARTS LIST						
QTY						
NEXT ASSY (S)			ORIGINAL DATE (MO-DA-YR) 06-10-19			
647.1400			DRAWN BY J. GARDINER CHECKER P. BRAVO			
			DRAWING APPROVAL P. BRAVO 06-10-09			
			CONTRACT No.			
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
			SIZE B	CAGE CODE 07M26	DWG. NO. 647.1500	REV. C
			SCALE NONE		SHEET 1 OF 6	

DART
AEROSPACE

APICAL INDUSTRIES, INC.
dba DART AEROSPACE

3030 ENTERPRISE CT.,
SUITE A
VISTA, CA. 92081
(760)-724-5300

DEFLECTORS

1 2 3 4 5 6 7 8

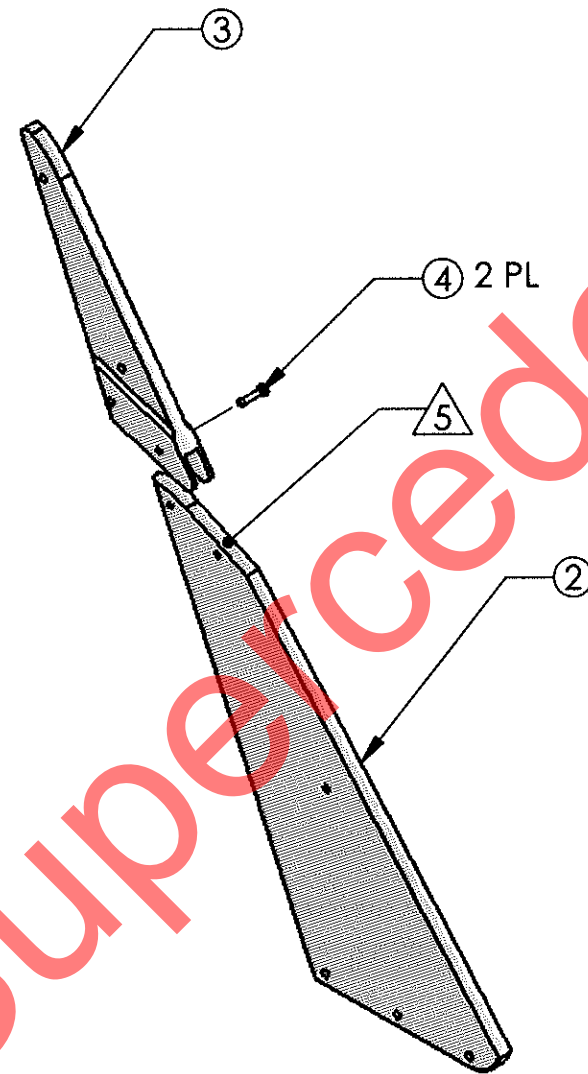
A

B

C

D

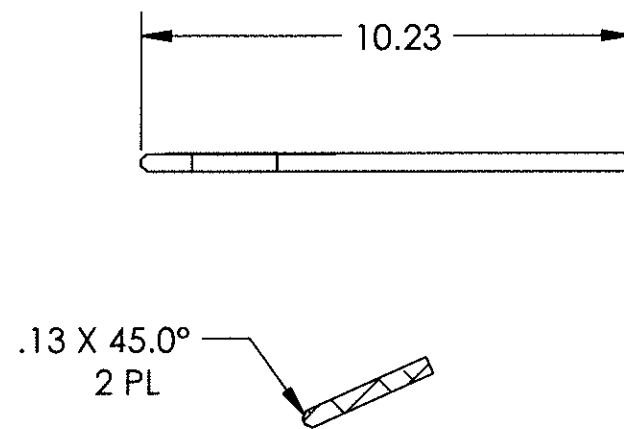
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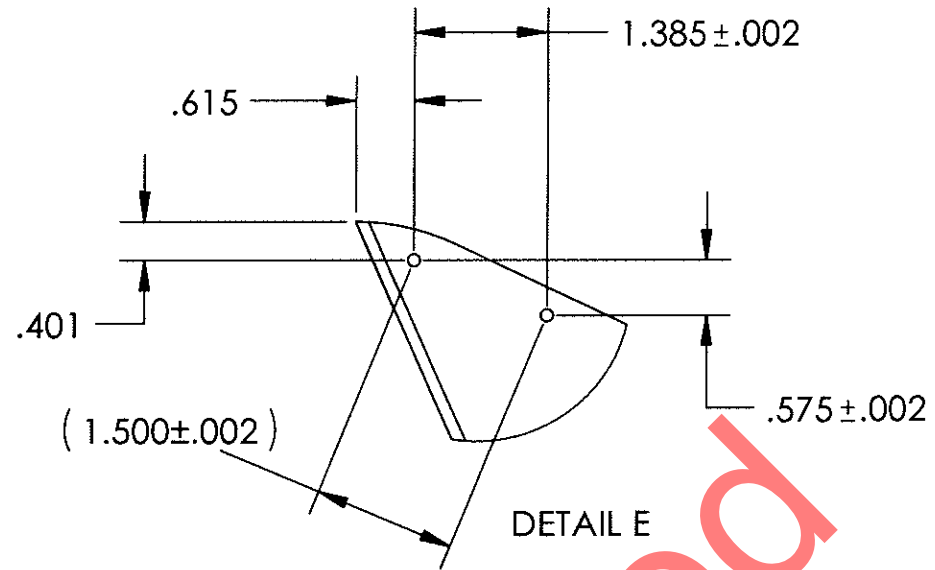
647.1501 SHOWN EXPLODED

ORIGINAL DATE MM-DD-YY 06-10-19		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 APICAL INDUSTRIES, INC. dba DART AEROSPACE (760)-724-5300	
DRAWN BY J. GARDINER			
CHECKER P. BRAVO		DRAWING APPROVAL P. BRAVO 06-10-09	
CONTRACT No.		DEFLECTORS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	CAGE CODE 07MZ6
		DWG. NO. 647.1500	REV. C
		SCALE NONE	SHEET 2 OF 6

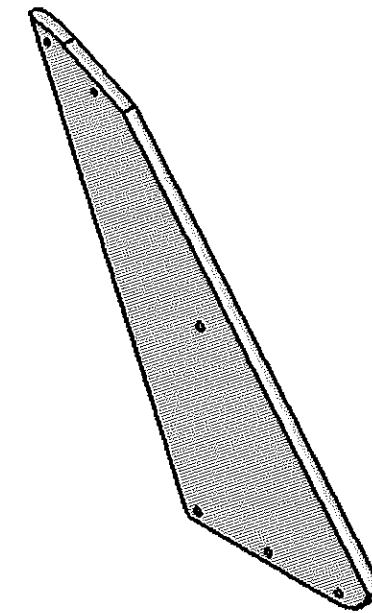
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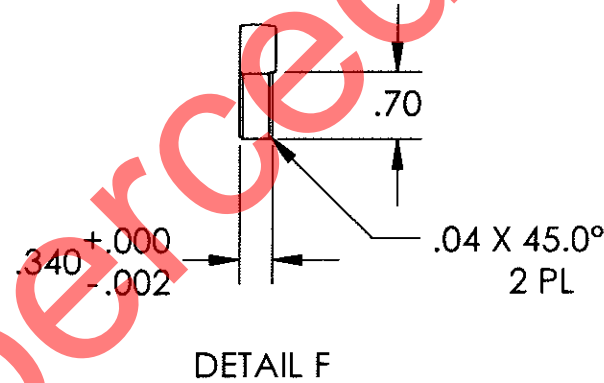
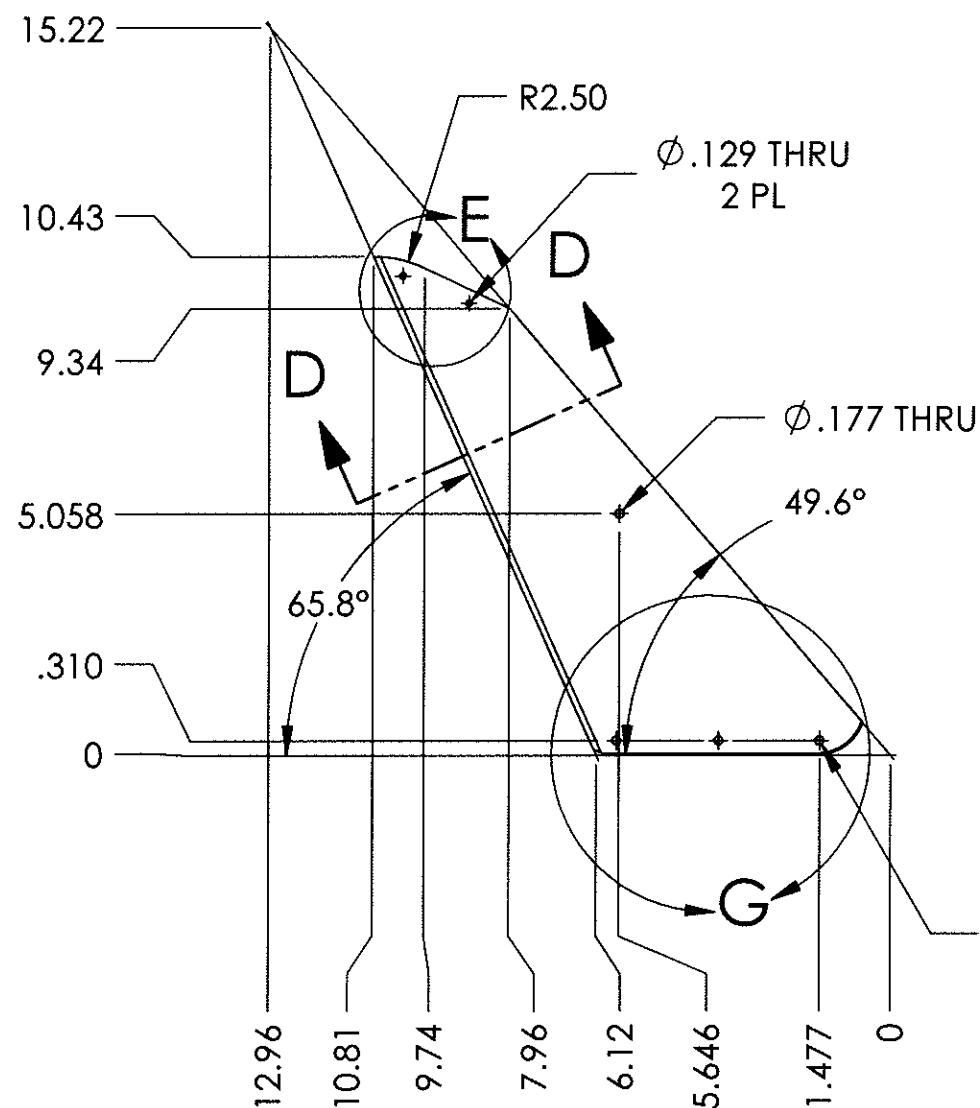
SECTION D-D



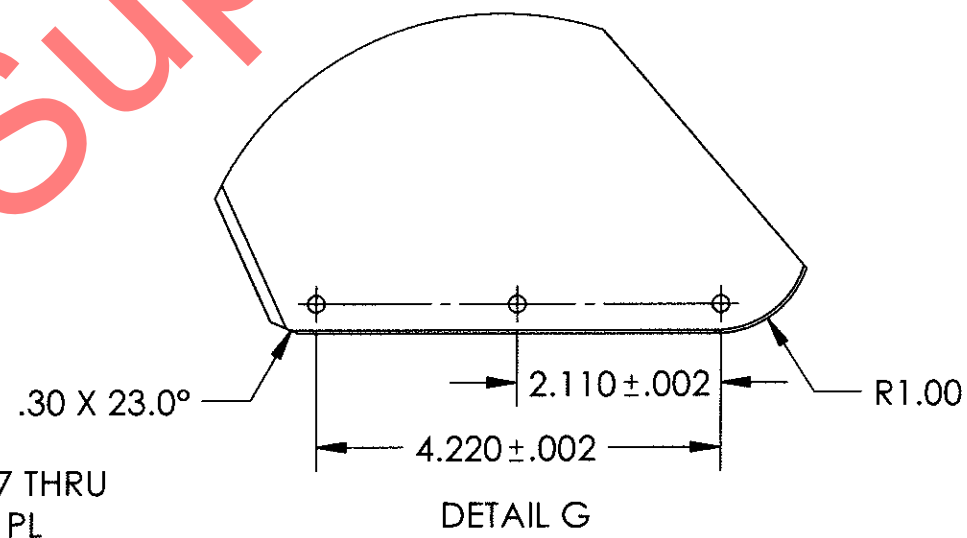
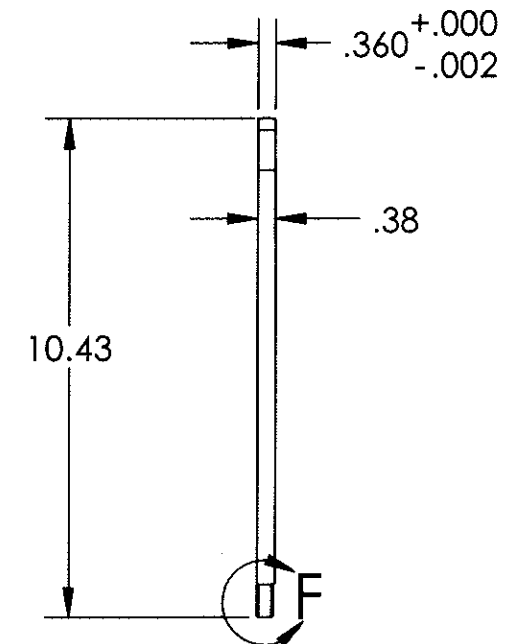
DETAIL E



647.1511



DETAIL F



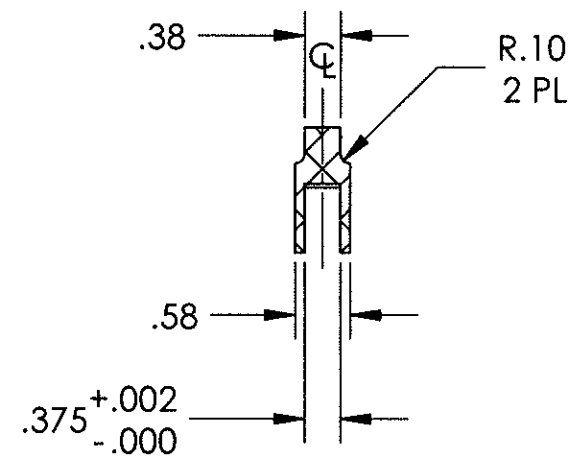
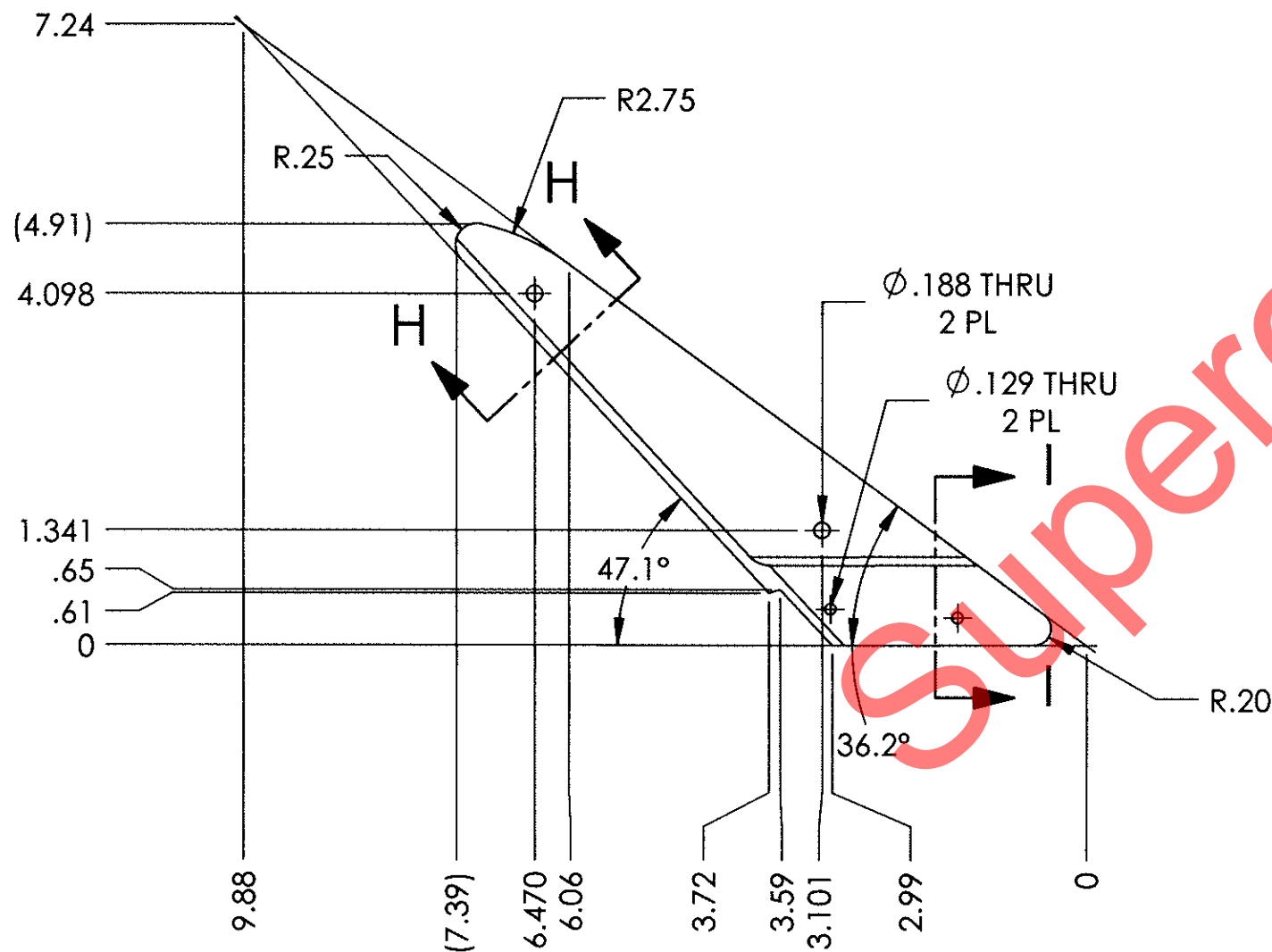
DETAIL G

ORIGINAL DATE (MO-DA-YR) 06-10-19		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWN BY J. GARDNER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-10-09		DEFLECTORS	
CONTRACT No.		SCALE NONE	SHEET 3 OF 6
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1500	REV. C

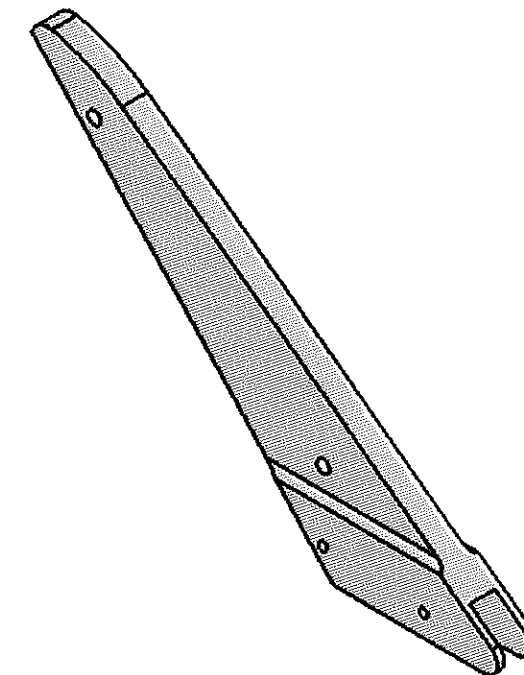
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.13 X 45.0°
2 PL


SECTION H-H



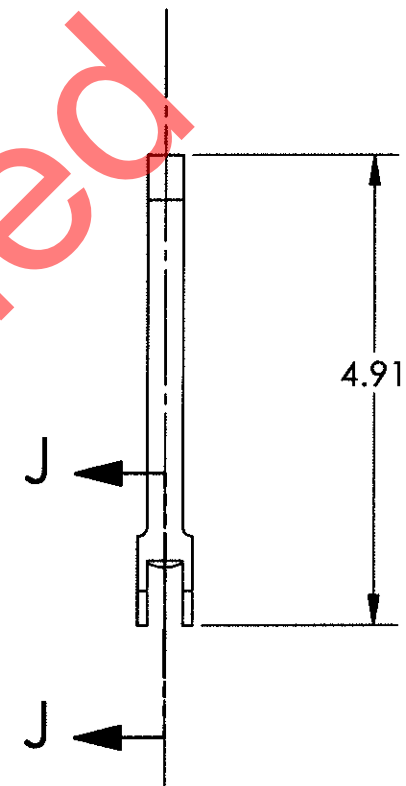
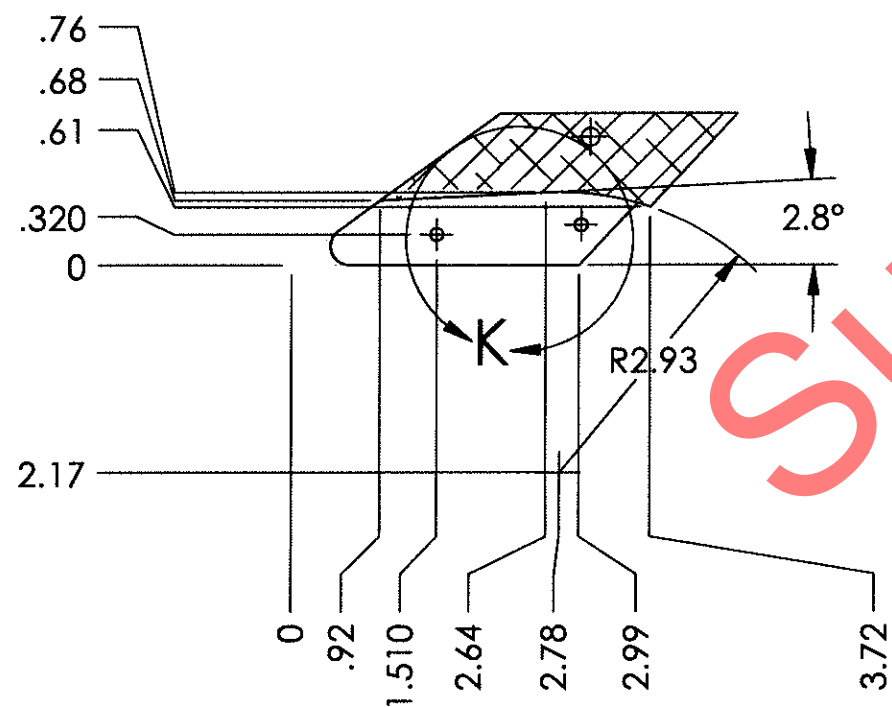
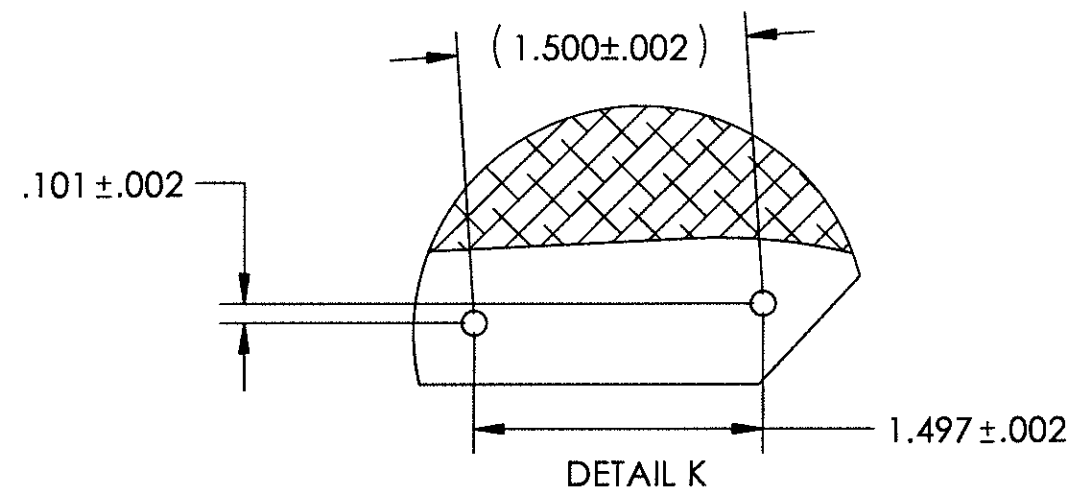
SECTION I-I



647.1512

ORIGINAL DATE (MO-DA-YR) 06-10-19	3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY J. GARDINER	CHECKER P. BRAVO	 APICAL INDUSTRIES, INC. dba DART AEROSPACE		
DRAWING APPROVAL P. BRAVO 06-10-09				
CONTRACT No.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$	DEFLECTORS			
	SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1500	REV. C
	SCALE NONE		SHEET	4 OF 6

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647.1512 RIGHT VIEW

ORIGINAL DATE (MO-DA-YR) 06-10-19		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 APICAL INDUSTRIES, INC. gag DART AEROSPACE (760)-724-5300	
DRAWN BY J. GARDNER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-10-09		DEFLECTORS	
CONTRACT No.		SIZE B	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 647.1500
SCALE NONE		SHEET 5 OF 6	

1 2 3 4 5 6 7 8

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.13 X 45°

SECTION Y-Y

Ø.177
3 PL

.318 X 23.00°

2.110±.002

4.220±.002

R1.00

647.1513

DETAIL W

R.25

R3.03

10.70

10.18

Ø.188

45.5°

Ø.177

R19.50

4.00

.70

.31

0

60.0°

.700

6.34

10.89

.921

.340^{+.000}_{-.002}

.70

DETAIL AA

.04 X 45.0°

.38

10.95

AA

ORIGINAL DATE (MM-DD-YY) 06-10-19		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY J. GARDINER		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO 06-10-19		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		DEFLECTORS	
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		DWG. NO. 647.1500	REV. C
		SCALE NONE	SHEET 6 OF 6